WATER POLLUTION CONTROL

INDEX

Part 1 — pp. 1 – 126
Part 2 — pp. 127 – 270
Part 3 — pp. 271 – 436
Part 4 — pp. 437 – 601

Page

ABBREVIATIONS 596

ACTIVATED-SLUDGE PROCESS:
- Aspects of the Persley OAS Plant 330
- Optimization of Coleshill Activated-Sludge Plant Operating Conditions 443
- Some Observations on Denitrification in Activated-Sludge Final Settlement Tanks 315
- The Use of Oxygen to Uprate the Treatment Capacity of a Conventional Surface-Aeration Plant at Holdenhurst (Bournemouth) Sewage-Treatment Plant 49

ANALYSIS AND MONITORING:
- A BASIC Program for the Investigation of Species Diversity 102
- A Different Approach to Water Quality Sampling 309
- An Inter-Laboratory Comparison of Metal Determinations in Sewage Sludges and Soil 290
- An Inter-Laboratory Comparison of Metal Determinations in Sludge-Treated Soil 544
- Automatic Water Quality Monitoring of the River Stour 590
- The Production of Polymer from Activated Sludge by Ethanolic Extraction and its Relation to Treatment Plant Operation 430

ANNUAL CONFERENCE 129

ANNUAL CORPORATE MEETING (FIFTIETH) . . 265

ANNUAL DINNER 263

AUTOMATION:
- Automation of Pumping Stations at Grimsby and Cleethorpes 339

BIOLOGICAL FILTRATION:
- The Efficiency of Insecticide Treatment of Flies on Biological Filters 571

COUNCIL, CONSTITUTION OF, 1983–84 595

EAST ANGLIAN BRANCH:
- Annual Report, 1982–83 591

EAST MIDLANDS BRANCH:
- Annual Report, 1982–83 591

ERRATUM 590

EXTRAORDINARY GENERAL MEETING 435

HONG KONG BRANCH:
- Annual Report, 1982–83 591

INDUSTRIAL EFFLUENTS:
- Consent Compliance — A Flexible Approach Adopted by Taunton Cider Co. Ltd. . . 348
- Industrial Effluent Control in the Netherlands and Legislation in this Field in Some Other European Countries 213
- Industrial Effluent Treatment at Sewage-Treatment Works: the Tadcaster Experience 227
- Industrial Effluents: In-Plant Pollution Control 590
- The Treatment of Ferruginous Ground Water from an Abandoned Colliery 557

LEGISLATION:
- Industrial Effluent Control in the Netherlands and Legislation in this Field in Some Other European Countries 213

METRIC SYSTEM:
- Conversion Factors 598
- Parameters and Conversion Factors 597

METROPOLITAN AND SOUTHERN BRANCH:
- Annual Report, 1982–83 592

MISCELLANEOUS:
- Cost-Effective Management — Revenue and Technical Monitoring 203
- Economic and Technical Appraisal of Capital Schemes 188
- Second Memorandum of Evidence to the Royal Commission on Environmental Pollution 123
- The Use of Micro-Computers in the Management of Scientific Information . . 535
- Training and Education in the Water Industry 137

NORTH EASTERN BRANCH:
- Annual Report, 1982–83 592

NORTH WESTERN BRANCH:
- Annual Report, 1982–83 592

NORTHERN BRANCH:
- Annual Report, 1982–83 593

NORTHERN IRELAND BRANCH:
- Annual Report, 1982–83 593

OBITUARY:
- Robert K. Chalmers 434
- Ronald Hicks 267
- Samuel Harry Jenkins 268

OVERSEAS PRACTICE:
- BOD Removal Efficiencies in Two Stabilization Lagoons in Series in Malaysia . . 114
- Sewage-Treatment Plant Design: Some Local Experiences in Hong Kong . . 518
- The Design and Construction of Melton Sewage-Treatment Works, Australia . . 567

Page

PRESIDENTIAL ADDRESS 5

SANITARY LANDFILLS:
Tip Leachate Treating Using Hydrogen Peroxide 243

SCOTTISH BRANCH:
Annual Report, 1982–83 593

SEWAGE TREATMENT:
Aerobic Treatment in 'Oxitron' Biological Fluidized-Bed Plant at Coleshill . . 479
BOD Removal Efficiencies in Two Stabilization Lagoons in Series in Malaysia . . 114
Nutrient Removal Trials and Bioassay Evaluation at Budds Farm Sewage-Treatment Works, Havant 381
Odour Problems at Effluent Treatment Plants — Some Remedies Which Use Commercial Oxygen 590
Optimization of Coleshill Activated-Sludge Plant Operating Conditions 443
Practical Aspects of Energy Saving in Wastewater Disposal 510
Principles Behind the Captor Process for the Treatment of High-Strength Wastes and Relief of Overloaded Sewage Works 590
Resurrection of Deighton Sewage-Treatment Works 87
Screening: A New Approach 256
'Sirofloc': Water Effluent Clarification Including the Potential for Virus Destruction 590
The A/O Process — Biological Treatment with Nutrient Removal 494
The Bioenergy Process: an Overview . . 29
The Production of Polymer from Activated Sludge by Ethanolic Extraction and its Relation to Treatment Plant Operation 430
The Sewage Screezer 590
The Use of Performance Indicators in Sewage Treatment Appraisal 61
Wet Ozonation for the Treatment of Sewage-Treatment Works Odours 18, 590

SEWAGE WORKS DESIGN:
Resurrection of Deighton Sewage-Treatment Works 87
Sewage-Treatment Plant Design: Some Local Experiences in Hong Kong . . 518
The Bowhouse Sewerage and Sewage Disposal Scheme of Fife Regional Council . . 42
The Design and Construction of Melton Sewage-Treatment Works, Australia . . 567
The Design and Construction of Springfield Sewage-Treatment Works 37
The Design and Operation of Canterbury Sewage-Treatment Works 273

SEWERAGE SYSTEMS:
Automation of Pumping Stations at Grimsby and Cleethorpes 339
Developments in Materials and Design Techniques for Sewerage Systems . . 164
Measurement of the Performance of Sewerage Systems and Associated Hydraulic Structures — Recent Developments . . 77
Prediction and Control of Ground Movement Associated with Trench Excavation . . 151
Present Techniques for *"In-Situ"* Sewer Renovation 179
The Sewerage Inheritance — Asset or Liability? 144

SLUDGE TREATMENT AND DISPOSAL:
Accelerated Cold Digestion: A New Look at an Old Technique 457
A Study of the Prevalence of Parasitic Helminth Eggs and Cysts in Sewage Sludges Disposed of to Agricultural Land 285
Cannock Sludge Thickeners — Process Design 355
Centrifuge Developments 590
Changes in the Extractabilities of the Heavy Metals in Water-Logged Sludge-Treated Soils 107
Early Operating Experiences of Sludge Incineration at Douglas Valley Sewage-Treatment Works 521
Inactivation of Ova of the Parasites *Taenia saginata* and *Ascaris suum* during Heated Anaerobic Digestion 501
The Availability to Plants of Phosphate in Sludges Precipitated from the Effluent from Sewage Treatment 582
The Destruction of Pathogens and Parasites in Sewage Sludge by Chemical Means . . 471

SOUTH EASTERN BRANCH:
Annual Report, 1982–83 594

SOUTHERN AFRICAN BRANCH:
Biennial Conference 1983 439

STANBRIDGE MEMORIAL LECTURE (FIRST) . . 132

TIDAL WATERS:
An Evaluation of a Moving Co-ordinate System Model of Salinity Intrusion into the Mersey Estuary 402
Biological Considerations in the Setting of Quality Standards for the Tidal Thames 52
Pollution Control Policies for the Tees Estuary 367
Pollution Management and the Tidal Thames 392

UNPUBLISHED PAPERS 590

WATER QUALITY MANAGEMENT:
An Evaluation of a Moving Co-ordinate System Model of Salinity Intrusion into the Mersey Estuary 402
Biological Considerations in the Setting of Quality Standards for the Tidal Thames 52
Pollution Control Policies for the Tees Estuary 367
Pollution Management and the Tidal Thames 392
The Effects of Power Station Cooling Water Discharges on Aquatic Ecology . . 10

WATER SUPPLY AND TREATMENT:
The Abstraction of Water for Potable Supply from a Low-Quality River 590

WEST MIDLANDS BRANCH:
Annual Report, 1982–83 594

AUTHORS

	Page
Aikman, D. I.	557
Anderson, R.	18, 590
Anderson, R. S.	179
Andrews, M. J.	52
Austin, E. P.	590
Bache, J. C.	590
Banyard, J. K.	188
Baughen, A. J.	77
Beckett, P. H. T.	107, 582
Best, A. G.	494
Best, G. A.	557
Bevins, R.	471
Bradley, R. M.	114
Bradstock, N. G. C.	348
Brady, J. A.	367
Brindley, P.	107
Brown, M. P.	309
Burton, D.	521
Carlton-Smith, C. H.	290, 544
Carrington, E. G.	501
Clarke, A. R.	430
Clough, G. F. G.	510
Cockburn, A. G.	52, 392
Conway, E.	521
Crabtree, H. E.	315
Cree, C. N. L.	87
Davis, R. D.	290, 544
Dawes, N. J.	164
Eadon, A. R.	77
Eastman, G. M.	590
Flaxman, E. W.	164
Ford, G. S.	381
Ford, J.	590
Forster, C. F.	430
Fraser, J. A. L.	243
Fry, R. H.	151
Fryer, B.	443
Garrett, M. E.	590
Godfree, A. F.	471
Gough, A. J.	355
Greaves, G. F.	18, 590
Green, W. D.	590
Harbott, B. J.	571
Howells, G. D.	10
Hoyland, G.	479
Hudson, J. A.	227
Hughes, W. D.	137
Hutton, J. L.	330
Jeffries, C. F.	348,590
Johnson, M. J.	203
Jones, C. E.	285
Jones, F.	471
Kennett, C. A.	590
Kimber, A. R.	49
Kuile, M.	582
Ley, J. B. K.	567
Lin, C. H.	402
Little, R. W.	256
Lloyd, P. J.	392
Lowe, P.	457
Lowthion, D.	381
McManus, G. M.	567
Mason, C.	339
Meijer, H. A.	213
Moore, C. G.	102
Moore, J. G.	37
Morris, D. L.	501
Musty, P.	443
Nunn, G.	203
Ord, W. O.	367
Osmond, P. H.	273
Outtram, D. R.	309
Pearce, M. J.	355
Penney, C. J.	571
Pike, E. B.	501
Pool, G. W.	590
Porter, J. P.	590
Pumphrey, P. F.	339
Reed, E.	144
Rees, R. L. G.	381
Rippon, G. M.	29
Robinson, M.	49
Robinson, P. J.	479
Rumsey, P. B.	151
Satchwell, M.	285
Sims, A. F. E.	243
Smith, W. S.	5
Soulsby, P. G.	381
Staples, K. D.	227
Staynes, T. M.	273
Stead, R. G.	367
Steel, J. E. C.	52
Stevens, R. J.	590
Symes, G. L.	256
Taylor, E.	273
Taylor, M. R. C.	590
Tench, H. B.	61
Tidswell, M. A.	227
Tin, Y. K.	518
Varley, R. A.	49
Walker, D. E.	535
Walker, I.	590
Watson, D. C.	285
West, J. R.	402
White, R. E.	582
Williamson, S.	457
Wilson, K. C.	42
Wood, R.	132